

AM-FM STEREO RECEIVER

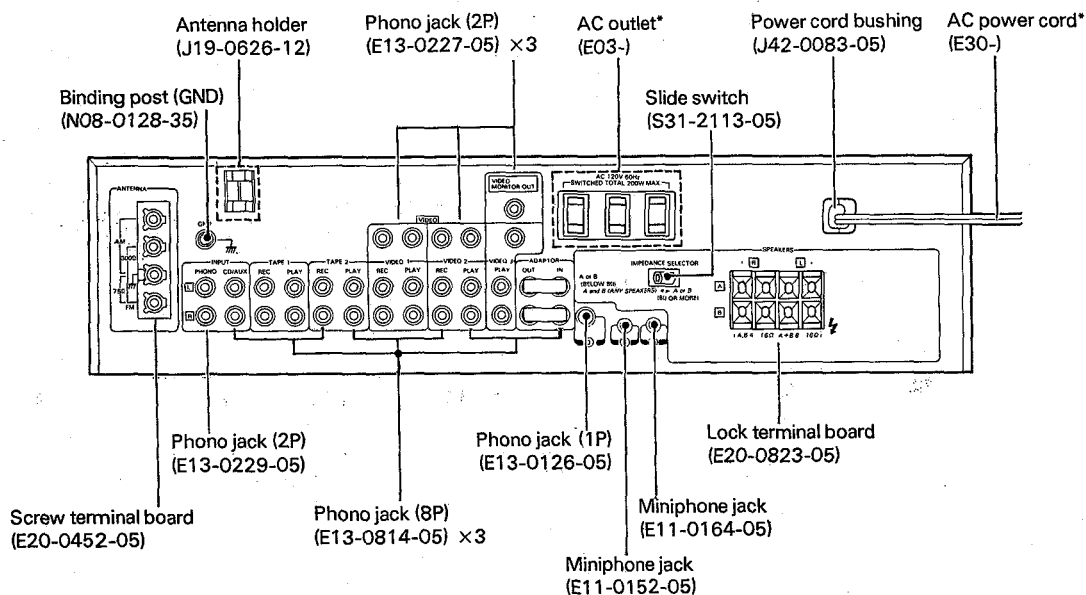
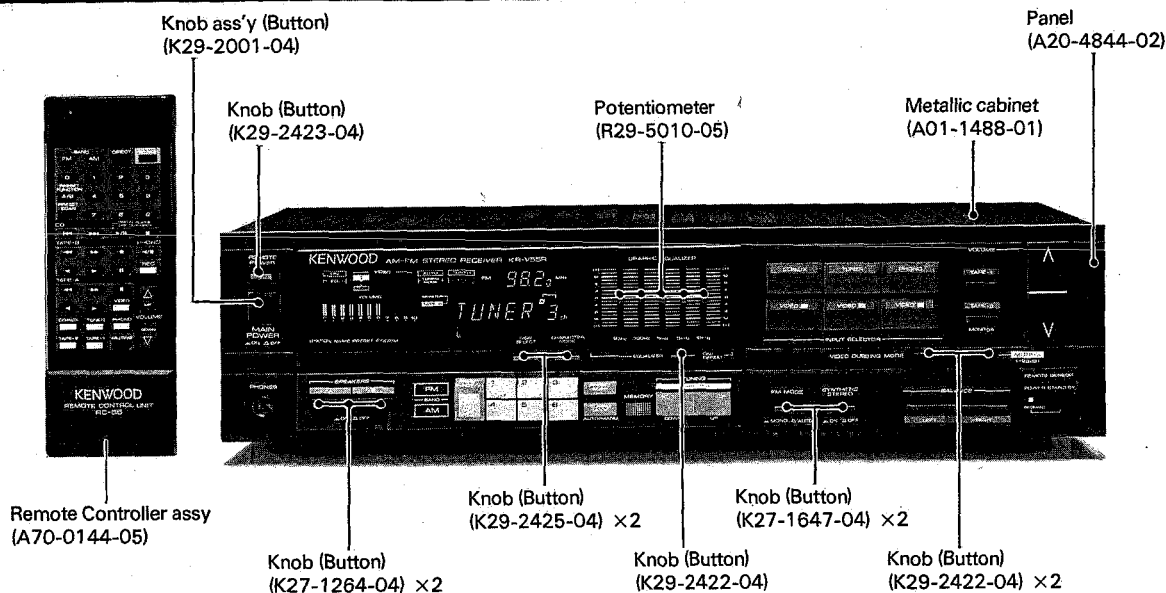
KR-V55R

SERVICE MANUAL

KENWOOD

KENWOOD CORPORATION

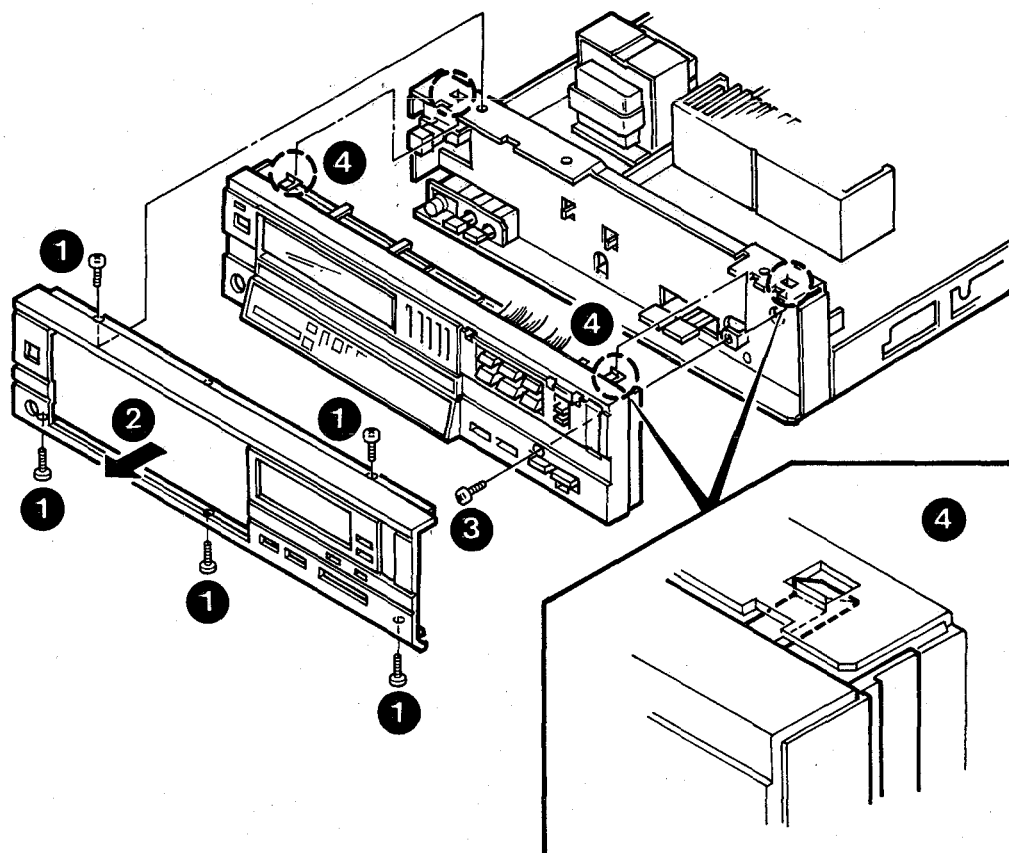
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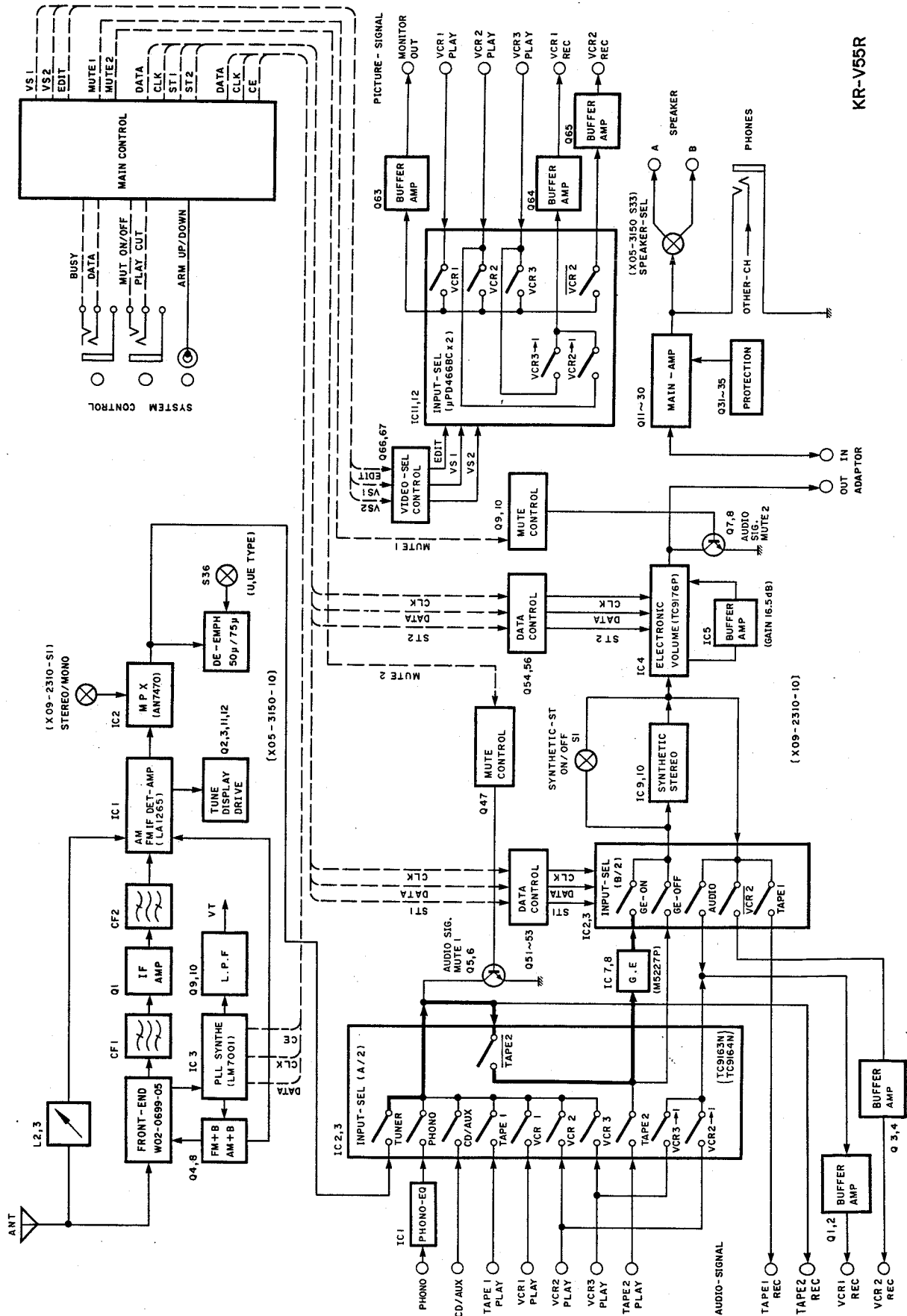
* Refer to parts list on page 14.

DISASSEMBLY FOR REPAIR

- 1 Remove 6 screws retaining the front pannel ①
- 2 Pull the front pannel toward to arrow direction ②
- 3 Remove screw retaining the sub-pannel ③
- 4 Remove the sub-pannel from hooks carefully ④



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Description of components.

AUDIO UNIT (X09-2310-10)

Components	Application/Function	Operation/Condition/Compatibility												
IC1	Phono EQ AMP	MM cartridge												
IC2	Input selecting	selector Phono/CD/TAPE1/TAPE2												
IC3	Input selecting	selector audio sig. of VIDEO 1/2/3												
IC4	Electronic Volume													
IC5	Buffer AMP	(Voltage gain: 16 dB)												
IC7, 8	Graphic EQ	5 freq. points												
IC9, 10	Synthetic Stereo	Buffer AMP/3 stage B.P.F.												
IC11, 12	Picture sig. selecting	VIDEO 1/2/3												
Q1~4	Buffer AMP (audio sig.)	VIDEO 1/2 (emitter follower)												
Q5, 6	Audio sig. mute 1 (TAPE REC)	MUTE-ON at Q47 ON.												
Q7, 8	Audio sig. mute 2 (Electronic VOL out)	MUTE-ON at Q9 ON.												
Q9, 10	Audio sig. mute control of Q7, 8													
Q11~14	Power AMP (1st diff AMP)													
Q15~18	Power AMP (2nd diff AMP)													
Q19, 20	Power AMP (Current mirror configuration in A-class stage)													
Q21, 22	Power AMP (Bias)													
Q23~26	Power AMN (driver stage)													
Q27~30	Power AM (Final stage)													
Q31~33	Current limiter	Q31 (Q32) detects terminal voltage of emitter resistor CP1 (CP2). When SP terminal is shorted to ground, Q31 (Q32) becomes to ON and Q33 goes to ON. So that regulator circuit (Q34, 35) does not function.												
Q34, 35	Power supply to 1st stage of Power AMP	Q35 works as ripple filter when Q34 is OFF.												
Q36	Re-set of IC 11 (— picture sig. selecting)	Q36 cuts VIDEO 3 selecting signal to IC11, when POWER SW is ON/OFF.												
Q37	— 30 V AVR	Display												
Q38~40	+ 14 V AVR													
Q41~44	— 14 V AVR	<table><tr><td>Status</td><td>Q45</td><td>Q46</td></tr><tr><td>POWER ON</td><td>off</td><td>on</td></tr><tr><td>POWER OFF</td><td>on</td><td>off</td></tr></table>	Status	Q45	Q46	POWER ON	off	on	POWER OFF	on	off			
Status	Q45	Q46												
POWER ON	off	on												
POWER OFF	on	off												
Q45, 46	+5 V AVR (for microprocessor)													
Q51	store sig. control (IC2, 3)													
Q52	data sig. control (IC2, 3)													
Q53	clock sig. control (IC2, 3)													
Q54	store sig. control (IC4)													
Q55	store sig. control (IC4)													
Q56	clock sig. control (IC4)													
Q57~59	Relay (KI) control													
Q60~62	+5 V AVR	Fip <table><tr><td>Status</td><td>Q60</td><td>Q61</td><td>Q62</td></tr><tr><td>POWER ON</td><td>on</td><td>off</td><td>working</td></tr><tr><td>POWER OFF</td><td>off</td><td>on</td><td>off</td></tr></table>	Status	Q60	Q61	Q62	POWER ON	on	off	working	POWER OFF	off	on	off
Status	Q60	Q61	Q62											
POWER ON	on	off	working											
POWER OFF	off	on	off											
Q63	Buffer AMP (picture sig. output)	VIDEO 1 (emitter follower)												
Q64		VIDEO 2 (emitter follower)												
Q65		Monitor out (emitter follower)												
Q66, 67	Control of picture sig. selecting													

CIRCUIT DESCRIPTION

TUNER, μ -COM UNIT (X05-3150-10)

Components	Application/Function	Operation/Condition/Compatibility									
IC1	FM IF/DET, AM MIX/IF/DET										
IC2	FM MPX										
IC3	PLL synthe										
IC4	Microprocessor	system control									
IC5	Microprocessor	remote control									
IC6~10	FIP driver	(transistor array)									
IC11	Frequency display control	conv. to display frequency (static display)									
Q1	FM IF AMP										
Q2, 3	TUNE indicating signal	<table> <tr> <td>status</td><td>Q2</td><td>Q3</td></tr> <tr> <td>TUNE</td><td>OFF</td><td>ON</td></tr> <tr> <td>not TUNE</td><td>ON</td><td>OFF</td></tr> </table>	status	Q2	Q3	TUNE	OFF	ON	not TUNE	ON	OFF
status	Q2	Q3									
TUNE	OFF	ON									
not TUNE	ON	OFF									
Q4	AM/FM switching	<table> <tr> <td></td><td>FM</td><td>AM</td></tr> <tr> <td>Q4</td><td>ON</td><td>OFF</td></tr> </table>		FM	AM	Q4	ON	OFF			
	FM	AM									
Q4	ON	OFF									
Q5	Prevention of wrong STEREO indicating	Q5 ON when FM TUNE indicator lights on.									
Q6	Buffer AMP	(emitter follower)									
Q7	Ripple filter										
Q8	FM + B switching										
Q9, 10	L. P. F in PLL synthe										
Q11	FIP driver (TUNE)	working when TUNE indicator lights on.									
Q12	FIP driver (STEREO)	working when STEREO indicator lights on.									

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: STEREO							
1	DISCRIMINATOR (1)	(A) 98.0MHz 1kHz, ±75kHz dev 60dB(ANT input)	Connect a DC voltmeter between TP8 and TP9.	MONO 98.0MHz	(X05-3150) T2	0V	
2	DISCRIMINATOR (2)	(A) 98.0MHz 1kHz, ±75kHz dev 60dB(ANT input)	(B)	MONO 98.0MHz	(X05-3150) T3	Minimum distortion.	
Repeat alignments 1 and 2 several times.							
3	VCO	(A) 98.0MHz 0 dev 60dB(ANT input)	Connect a 330kΩ resistor to TP7. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	(X05-3150) VR3	76.00kHz	
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±88.25kHz dev Selector: L or R Pilot: ±6.75kHz dev 60dB(ANT input)	(B)	98.0MHz	(X05-3150) Front end IFT	Minimum distortion.	
5	SEPARATION	(C) 98.0MHz 1kHz, ±88.25kHz dev Selector: L or R Pilot: ±6.75kHz dev 60dB(ANT input)	(B)	98.0MHz	(X05-3150) VR4	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
AM SECTION Keep the loop antenna installed. INPUT SELECTOR: AM							
(1)	BAND EDGE (1)	—	Connect a DC voltmeter to TP2.	530kHz (531kHz)	(X05-3150) L3	1.5V	
(2)	BAND EDGE (2)	—	Connect a DC voltmeter to TP2.	1610kHz (1602kHz)	(X05-3150) TC1	8.0V	
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 600(603)kHz 400Hz, 30% mod	(B)	600kHz (603kHz)	(X05-3150) L2	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1400(1404)kHz 400Hz, 30% mod	(B)	1400kHz (1404kHz)	(X05-3150) TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
(5)	IF TRANSFORMER	(D) 1000(999)kHz 400Hz, 30% mod	(B)	1000kHz (999kHz)	(X05-3150) T1	Maximum amplitude and symmetry of the oscilloscope display.	
AM/FM COMMON SECTION							
6	TUNE INDICATOR THRESHOLD LEVEL	(A) 98.0MHz 0 dev 18dB(ANT input)	—	FM reception 98.0MHz	(X05-3150) VR2	Light	
(6)	TUNE INDICATOR THRESHOLD LEVEL	(D) 1000(999)kHz 20~24dB(ANT input)	—	AM reception 1000(999)kHz	(X05-3150) VR1	Light	
AUDIO SECTION							
7	IDLE CURRENT	—	(E) DC voltmeter CP1(CP2)	Volume: 0	(X09-2310) VR1 (L) VR2 (R)	18mV	

REGLAGE

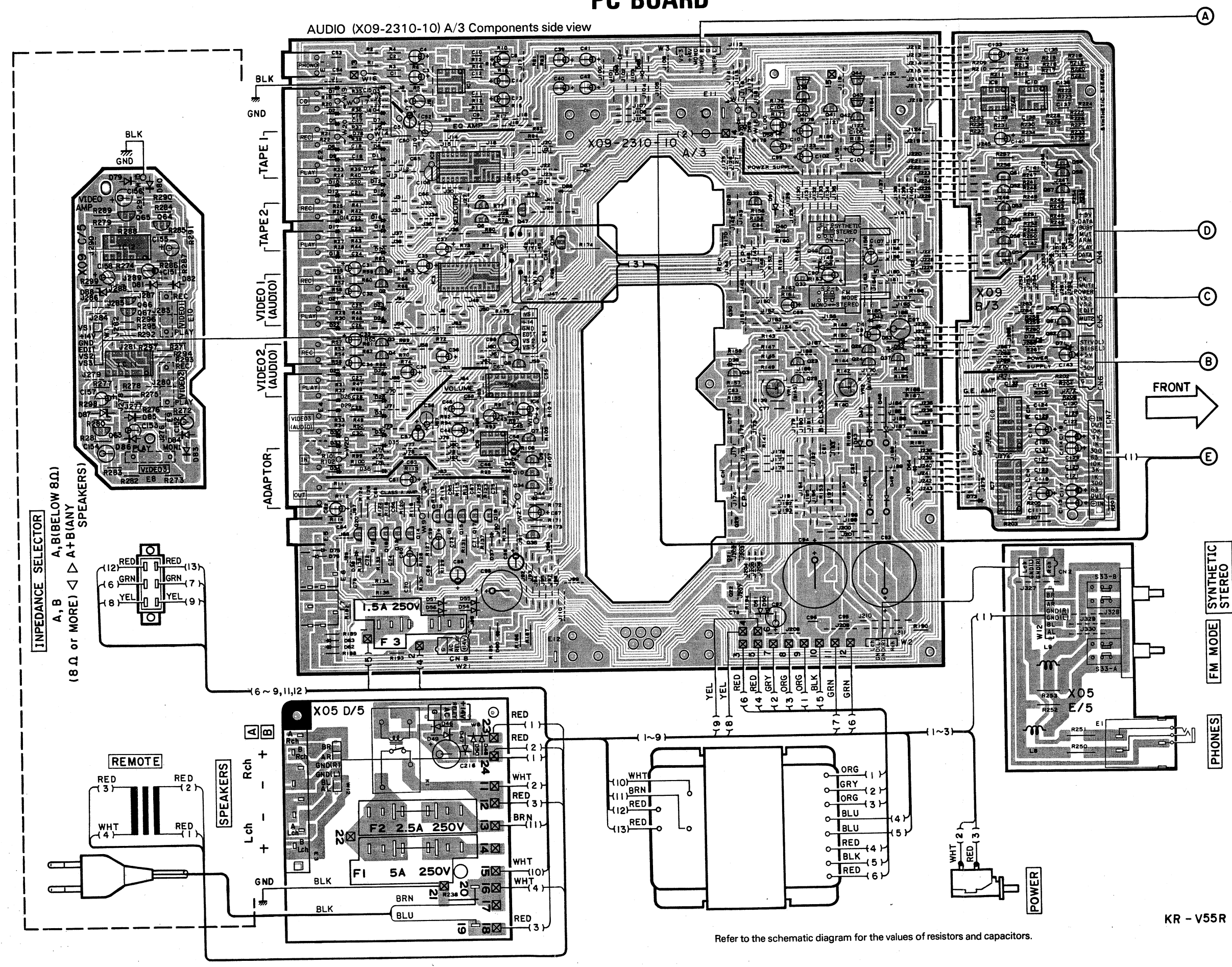
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit:							
SELECTEUR DES ENTRESS: MF MODE: STEREO							
1	DISCRIMINATEUR (1)	(A) 98,0MHz 1kHz.±75kHz dév 60dB(Entrée ANT)	Relier un voltmètre CC entre les TP8 et TP9.	MONO 98,0MHz	(X05-3150) T2	0V	
2	DISCRIMINATEUR (2)	(A) 98,0MHz 1kHz.±75kHz dév 60dB(Entrée ANT)	(B)	MONO 98,0MHz	(X05-3150) T3	Distorsion minimale.	
Répéter les points 1 et 2 plusieurs fois.							
3	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0MHz 0 dév 60dB(Entrée ANT)	Relier une résistance de 330kΩ à TP7. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	(X05-3150) VR3	76,00kHz	
4	DISTORSION (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Selection: L ou R Signal pilote: ±6,75kHz dév 60dB(Entrée ANT)	(B)	98,0MHz	(X05-3150) Tête H.F. IFT	Distorsion minimale.	
5	SEPARATION	(C) 98,0MHz 1kHz.±68,25kHz dév Selection: L ou R Signal pilote: ±6,75kHz dév 60dB(Entrée ANT)	(B)	98,0MHz	(X05-3150) VR4	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparation de gauche à droite et droite à gauche sont inégales.	
SECTION MA							
Laisser l'antenne bouche MA installée. SELECTEUR: AM							
(1)	BORD DE BANDE (1)	—	Relier un voltmètre CC au TP2.	530kHz (531kHz)	(X05-3150) L3	1,5V	
(2)	BORD DE BANDE (2)	—	Relier un voltmètre CC au TP2.	1610kHz (1602kHz)	(X05-3150) TC1	8,0V	
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT H.T. (1)	(D) 600(603)kHz 400Hz.30% mod	(B)	600kHz (603kHz)	(X05-3150) L2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT H.T. (2)	(D) 1400(1404)kHz 400Hz.30% mod	(B)	1400kHz (1404kHz)	(X05-3150) TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
(5)	TRANSFORMATEUR F.I.	(D) 1000(999)kHz 400Hz.30% mod	(B)	1000kHz (999kHz)	(X05-3150) T1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
SECTION COMMUNE MA/MF							
6	INDICATEUR DE SYNTONISATION NIVEAU DE SEUIL	(A) 98,0MHz 0 dév 18dB(Entrée ANT)	—	Reception MF 98,0MHz	(X05-3150) VR2	Arrume	
(6)	INDICATEUR DE SYNTONISATION NIVEAU DE SEUIL	(D) 1000(999)kHz 20~24dB(Entrée ANT)	—	Reception MA 1000(999)kHz	(X05-3150) VR1	Arrume	
SECTION AUDIO							
7	COURANA DE POLARISATION	—	(E) Connecter un voltmètre CC CP1(CP2)	Volume: 0	(X09-2310) VR1 (C) VR2 (D)	18mV	

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPfangSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: EINGANGSUMSCHALTER: FM							
1	DISKRIMINATOR (1)	(A) 98,0MHz 1kHz, ±75kHz Hub 60dB(ANT-Eingang)	Einen Gleichspannungsmesser zwischen TP8 und TP9 anschließen.	MONO 98,0MHz	(X05-3150) T2	0V	
2	DISKRIMINATOR (2)	(A) 98,0MHz 1kHz, ±75kHz Hub 60dB(ANT-Eingang)	(B)	MONO 98,0MHz	(X05-3150) T3	Minimal Klirrfaktor.	
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dB(ANT-Eingang)	Einen 330kΩ Widerstand zu TP7 anschließen. Einen Frequenzzähler über einen Wechsellspannungsmesser an den Widerstand anschließen.	98,0MHz	(X05-3150) VR3	76,00kHz	
4	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R Piloten: ±6,75kHz Hub 60dB(ANT-Eingang)	(B)	98,0MHz	(X05-3150) Frontende IFT	Minimal Klirrfaktor.	
5	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R Piloten: ±6,75kHz Hub 60dB(ANT-Eingang)	(B)	98,0MHz	(X05-3150) VR4	Minimales Übersprechen. Eine Ausgleichregelung kann notwendig sein, falls links-zu-rechts und rechts-zu-links. Trennungen ungleich sind.	
MW-EMPfangSABTEILUNG Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM							
(1)	BANDKANTE (1)	—	Einen Gleichspannungsmesser zu TP2 anschließen.	530kHz (531kHz)	(X05-3150) L3	1.5V	
(2)	BANDKANTE (2)	—	Einen Gleichspannungsmesser zu TP2 anschließen.	1610kHz (1602kHz)	(X05-3150) TC1	8.0V	
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 600(603)kHz 400Hz, 30% mod	(B)	600kHz (603kHz)	(X05-3150) L2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1400(1404)kHz 400Hz, 30% mod	(B)	1400kHz (1404kHz)	(X05-3150) TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
(5)	ZF-ÜBERTRAGER	(D) 1000(999)kHz 400Hz, 30% mod	(B)	1000kHz (999)kHz	(X05-3150) T1	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
MW/UKW-EMPfangSABTEILUNG Die MW/UKW-Rahmenantenne angebracht lassen. WÄHLER: AM/FM							
6	ABSTIMMANZEIGE SCHWELLENPEGEL	(A) 98,0MHz 0 Hub 18dB(ANT-Eingang)	—	UKW-empfang 98,0MHz	(X05-3150) VR2	Einschalen	
(6)	ABSTIMMANZEIGE SCHWELLENPEGEL	(D) 1000(999)kHz 20 ~ 24dB(ANT-Eingang)	—	MW-empfang 1000(999)kHz	(X05-3150) VR1	Einschalen	
AUDIO-ABTEILUNG							
7	LEERLAUFSTROM	—	(E) Einen Gleichspannungsmesser über CP1(CP2)	Volume: 0	(X09-2310) VR1 (L) VR2 (R)	18mV	

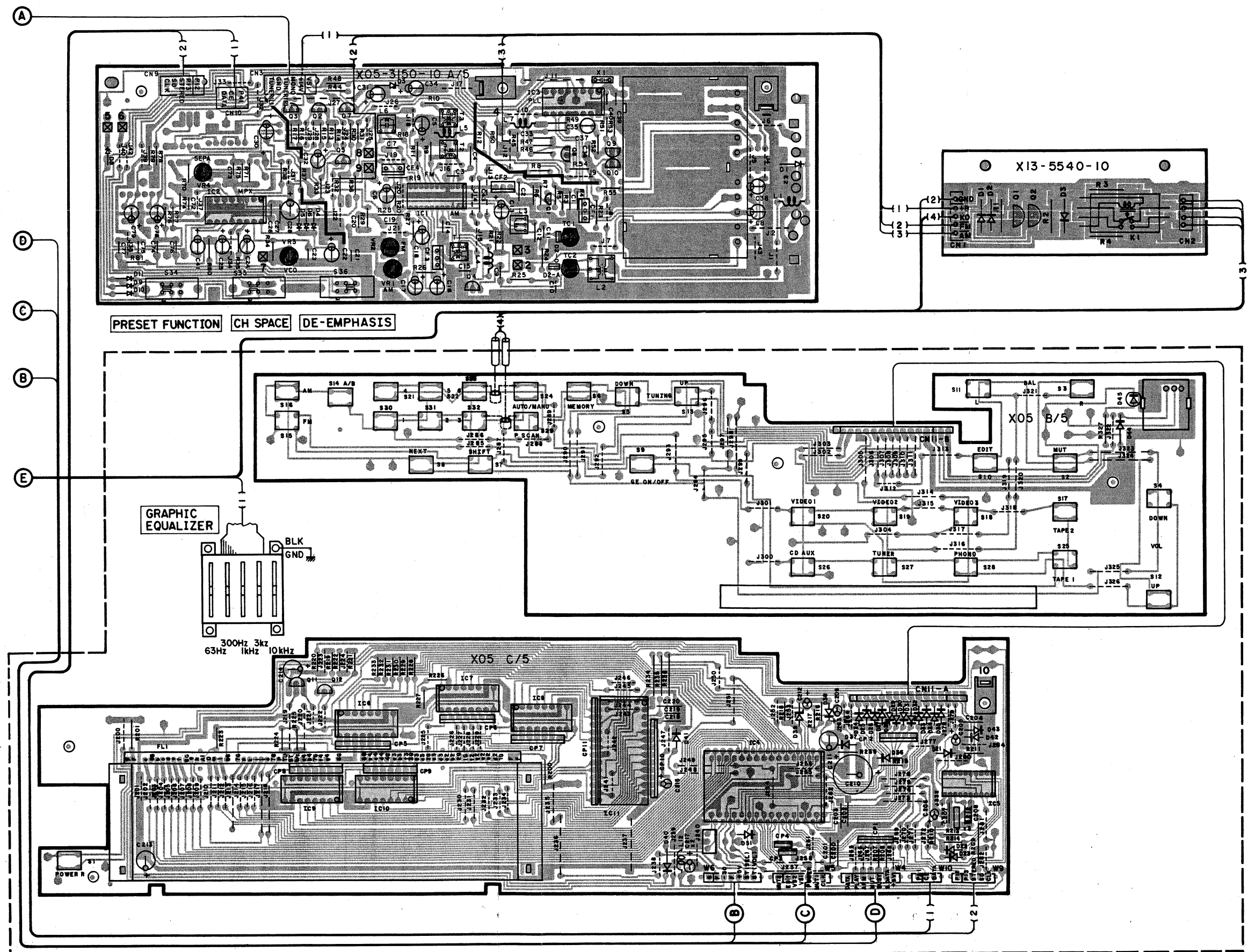
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PC BOARD



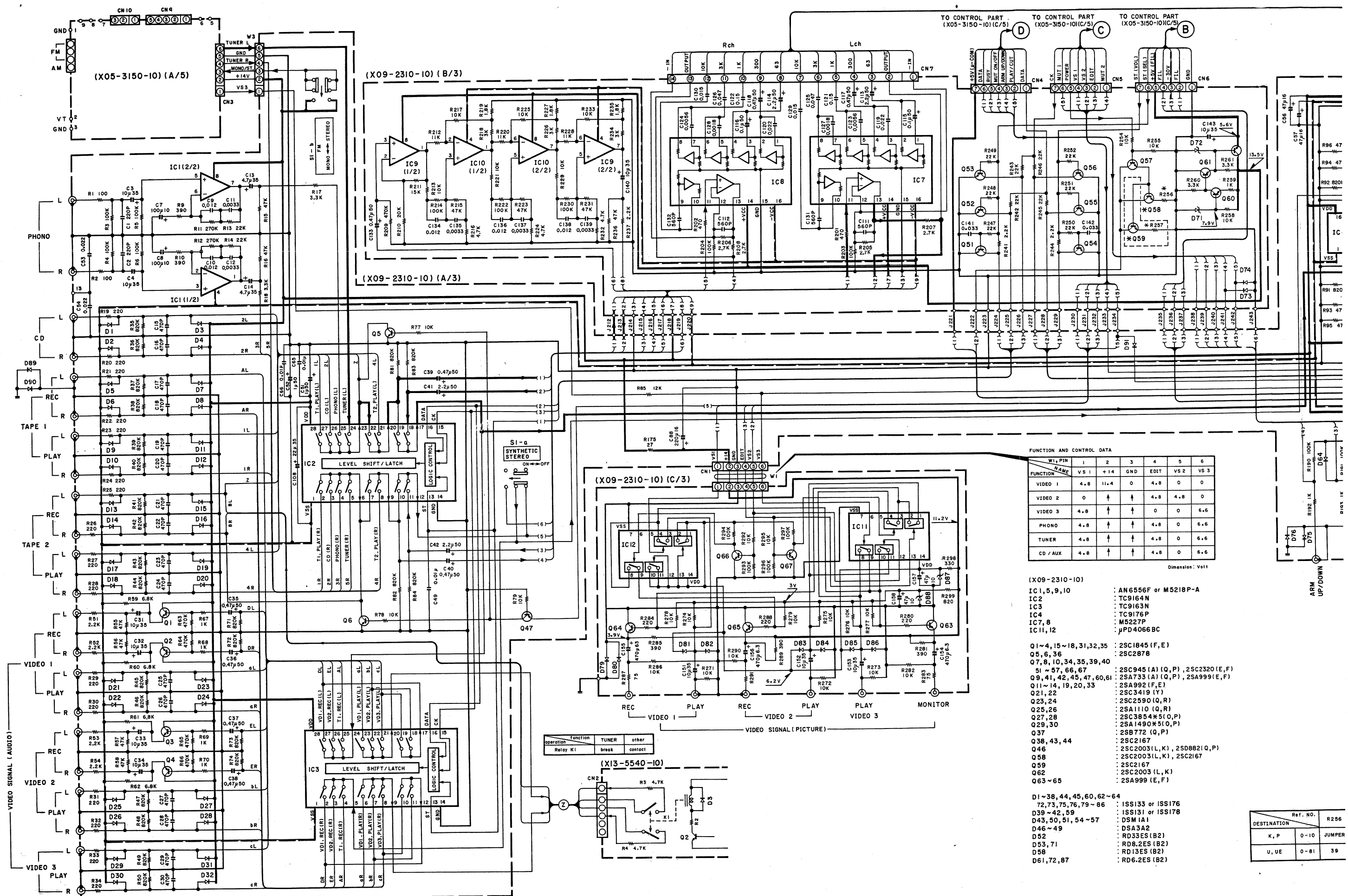
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PC BOARD



Refer to the schematic diagram for the values of resistors and capacitors.

KR-V55R



FUNCTION AND CONTROL DATA							
W/IN		1	2	3	4	5	6
FUNCTION	NAME	V S 1	+ I 4	GND	EDIT	V S 2	V S 3
VIDEO 1		4.8	11.4	0	4.8	0	0
VIDEO 2		0	↑	↑	4.8	4.8	0
VIDEO 3		4.8	↑	↑	0	0	6.6
PHONO		4.8	↑	↑	4.8	0	6.6
TUNER		4.8	↑	↑	4.8	0	6.6
CD / AUX		4.8	↑	↑	4.8	0	6.6

Dimension: Volt

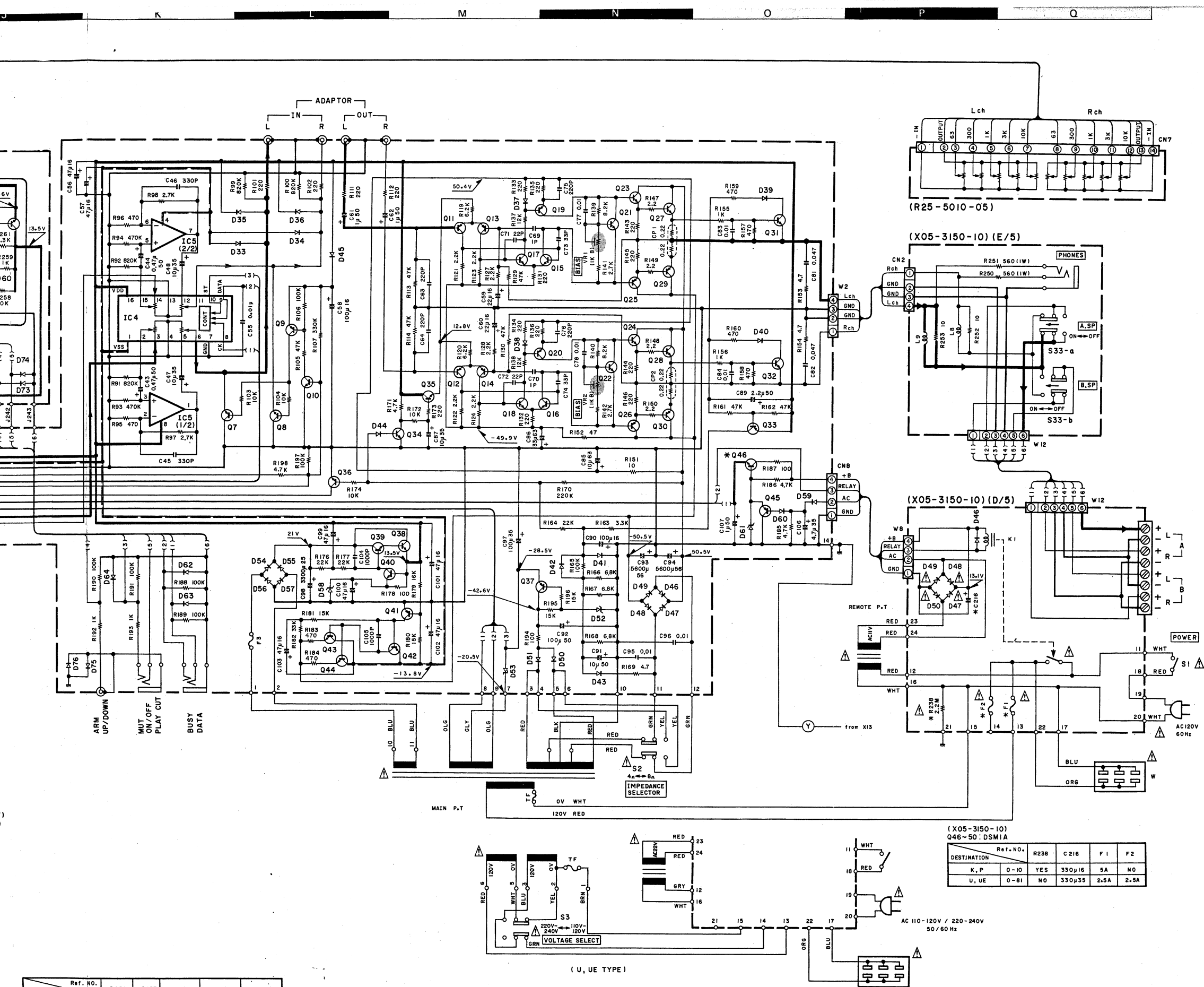
(X09-2310-10)

IC1,5,9,10	: AN6556F or M5218P-A
IC2	: TC9164N
IC3	: TC9163N
IC4	: TC9176P
IC7,8	: M5227P
IC11,12	: μ PD4066BC

Q1~4,15~18,31,32,35 : 2SC1845 (F,E)
Q5,6,36 : 2SC2878
Q7,8,10,34,35,39,40
51~57,66,67 : 2SC945 (A,Q,P), 2SC232
Q9,41,42,45,47,60,61 : 2SA733 (A,Q,P), 2SA995
Q11~14,19,20,33 : 2SA992 (F,E)
Q21,22 : 2SC3419 (Y)
Q23,24 : 2SC2590 (Q,R)
Q25,26 : 2SA1110 (Q,R)
Q27,28 : 2SC3854*5 (Q,P)
Q29,30 : 2SA1490*5 (Q,P)
Q37 : 2SB772 (Q,P)
Q38,43,44 : 2SC2167
Q46 : 2SC2003(L,K), 2D8882(Q)
Q58 : 2SC2003(L,K), 2SC2167
Q59 : 2SC2167
Q62 : 2SC2003 (L,K)
Q63~65 : 2SA999 (E,F)

D1~38,44,45,60,62~64	
72,73,75,76,79~86	: ISS133 or ISS176
D39~42,59	: ISS131 or ISS178
D43,50,51,54~57	: DSM IA1
D46~49	: DSA3A2
D52	: RD33ES (B2)
D53,71	: RD8.2ES (B2)
D58	: RD13ES (B2)
D61,72,87	: RD6.2ES (B2)

Ref. NO.		R 256
DESTINATION		
K, P	0-10	JUMPER
U, UE	0-81	39



Ref. NO.	R256	R257	Q46	Q58	Q59
DESTINATION					
K, P	0-10	JUMPER	—	2SC2003 (L, K)	2SC2003 (L, K)
U, UE	0-81	39	39	2SD882 (Q, P)	2SC2167

Ref. NO.	R238	C216	F1	F2
DESTINATION				
K, P	0-10	YES	330µ16	5A
U, UE	0-81	NO	330µ35	2.5A

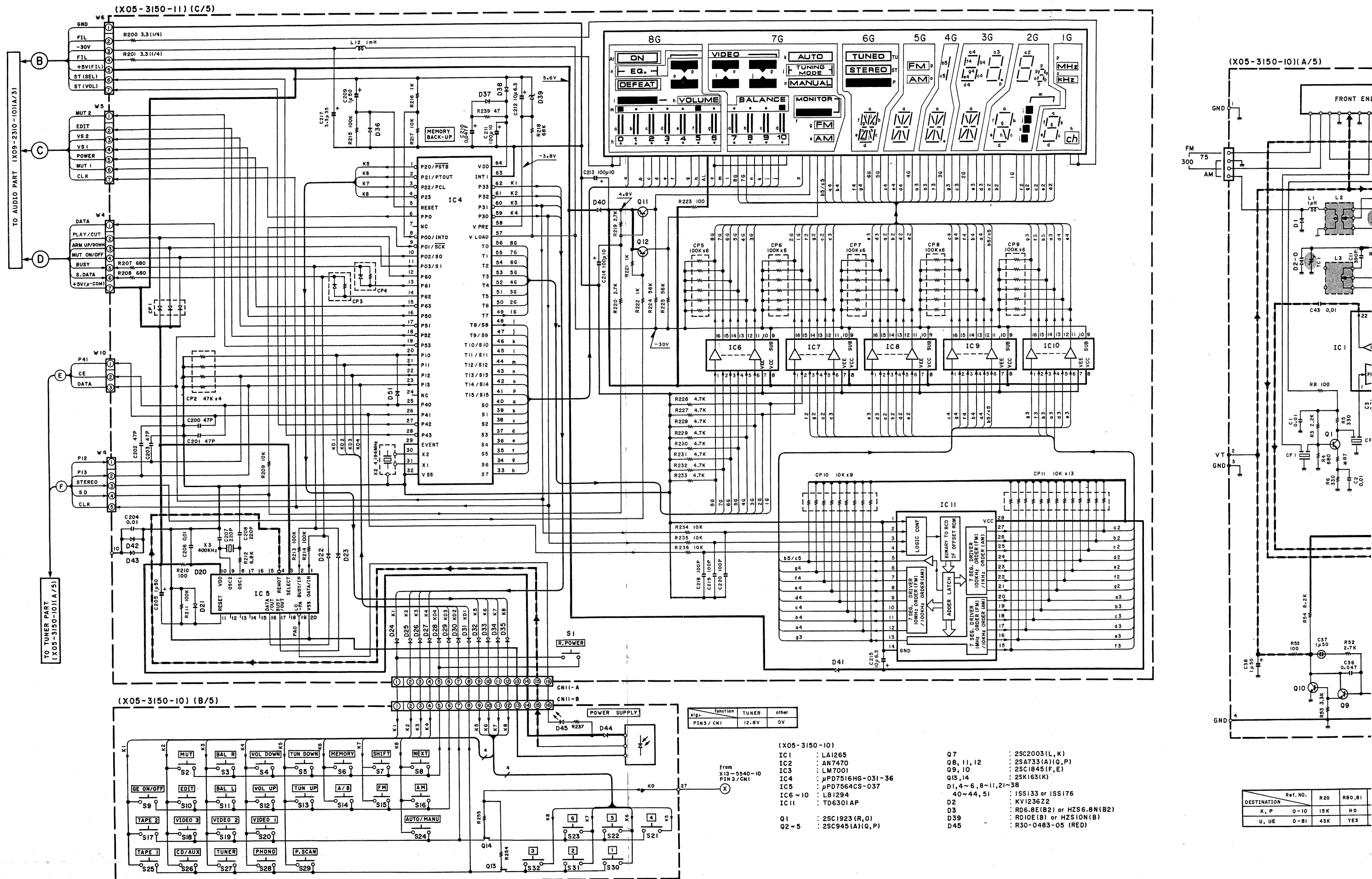
- 2SA733 (A)
- 2SA992
- 2SA999
- 2SC1845
- 2SC1923
- 2SC2003
- 2SC2320
- 2SC2878
- 2SC945 (A)
- 2SA1110
- 2SB772
- 2SC2590
- 2SD882
- 2SC2167
- 2SA1490*5
- 2SC3854*5
- 2SC3391
- 2SC3494
- 2SC3419
- 2SK163
- TD6301AP
- UPD4066BC
- LB1294
- LM7001
- UPD7564CS-037
- AN7470
- TC9176P
- CX20106A
- M5227P
- AN6556F
- M5218P-A
- 7516HG-031-36
- TC9163N
- TC9164N
- LA1265

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

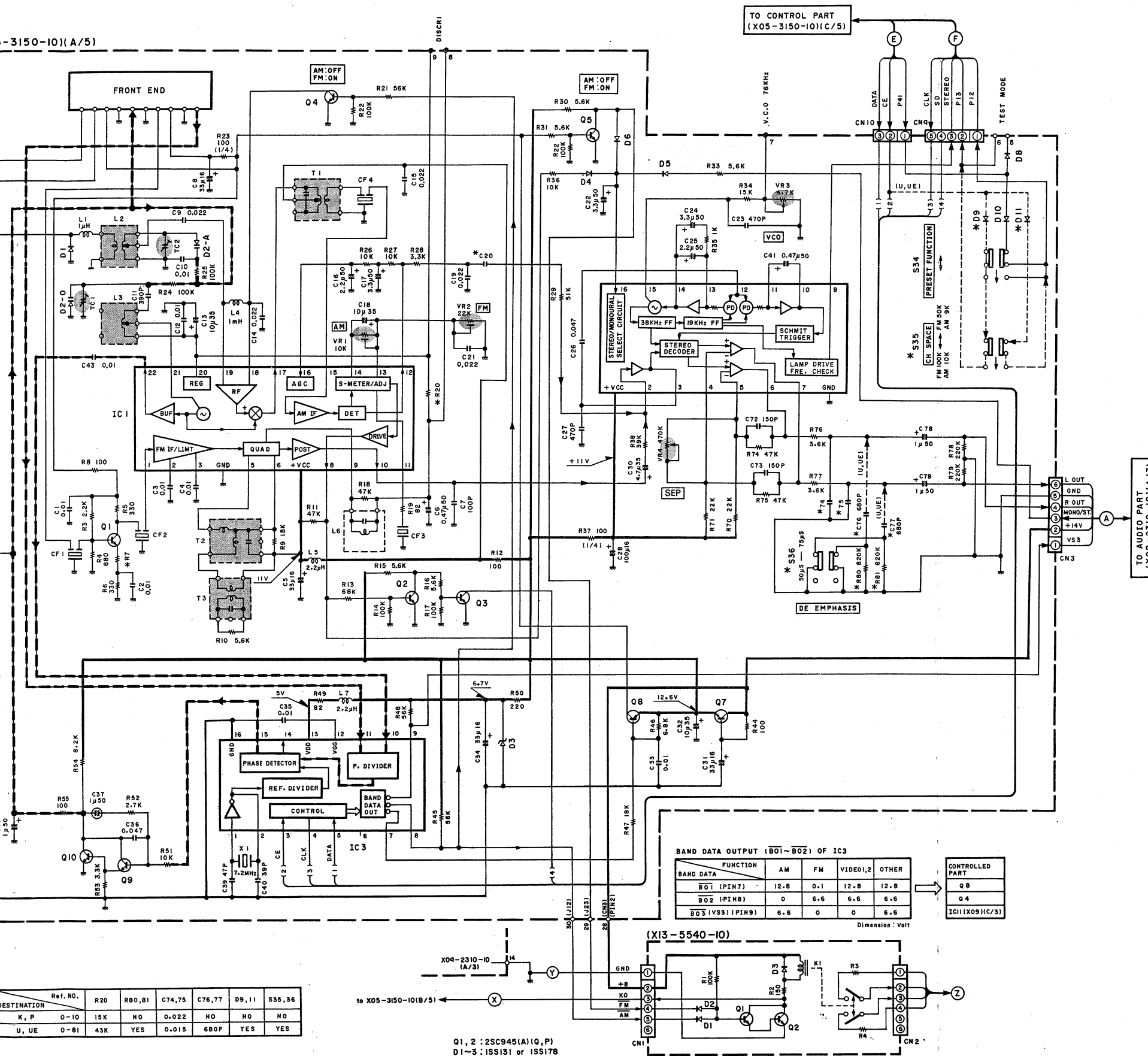
- DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewed from the side easy to check.

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-3150-10)(A/5)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

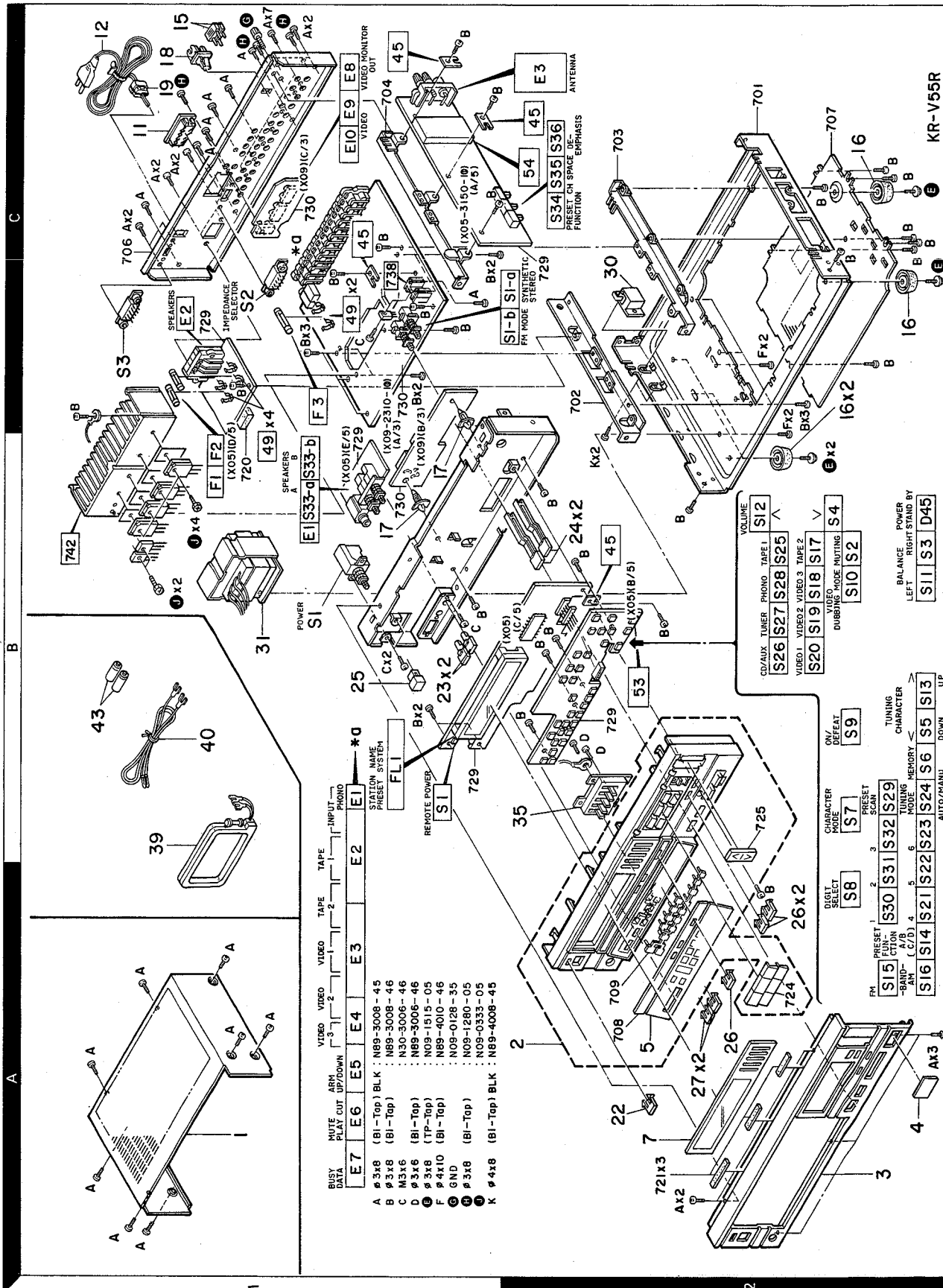
- DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

Refer to the schematic diagram for the values of resistors and capacitors. The PC board drawing is viewed from the side easy to check.

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KR-V55R(K) (2/2)

EXPLODED VIEW (MAIN UNIT)



PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KR-V55R						
-	-	*	A70-0144-05	REMOTE CONTROLLER ASSY		
1	1A	*	A01-1488-01	METALLIC CABINET		
2	2A	*	A22-0580-02	SUB PANEL ASSY		
3	2A	*	A20-4844-02	PANEL		
4	2A		B03-2058-04	DRESSING PLATE (REMOTE SENSOR)		
5	2A		B03-2057-03	DRESSING PLATE		
7	2A		B03-2054-03	DRESSING PLATE		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0121-03	WARRANTY CARD	P	
-		*	B50-6186-00	INSTRUCTION MANUAL (ENGLISH)	K	
-		*	B50-6187-00	INSTRUCTION MANUAL (ENG, FRE)	P	
-		*	B50-6188-00	INSTRUCTION MANUAL (ENGLISH)	UUE	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0389-04	CAUTION CARD		
-			B58-0513-04	CAUTION CARD (PRESET 220-240)	UUE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
11	1C		E03-0075-05	AC OUTLET	UUE	
11	1C	*	E03-0086-05	AC OUTLET	KP	
12	1C		E30-0812-05	AC POWER CORD	UUE	
12	1C		E30-0974-05	AC POWER CORD	KP	
-		*	H01-7167-04	ITEM CARTON CASE		
-		*	H10-1889-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0181-04	PROTECTION BAG (150X260X0.05)		
-			H25-0224-04	PROTECTION BAG (800X400)		
-			H25-0232-04	PROTECTION BAG (235X350)		
15	1C		J12-0094-05	PIN (ADAPTOR)		
16	2C		J02-0170-04	FOOT		
17	1B		J19-0506-05	UNIT HOLDER		
18	1C		J19-0626-12	ANTENNA HOLDER		
19	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
22	2A	*	K29-2423-04	KNOB (BUTTON) REMOTE POWER		
23	1B		K27-1264-04	KNOB (BUTTON) SPEAKERS		
24	2B	*	K27-1647-04	KNOB (BUTTON) FM MODE, SYNTH		
25	1B		K29-2001-04	KNOB ASSY (BUTTON) POWER		
26	2A	*	K29-2422-04	KNOB (BUTTON) EQ, DUBBING, SYNTH		
27	2A	*	K29-2425-04	KNOB (BUTTON) SEL, CHAR MODE		
30	2C		L01-6681-05	POWER TRANSFORMER (REMOTE)	KP	
30	2C	*	L01-7172-05	POWER TRANSFORMER (REMOTE)	UUE	
31	1B	*	L01-7141-05	POWER TRANSFORMER (MAIN)	K	
31	1B	*	L01-7145-05	POWER TRANSFORMER (MAIN)	UUE	
31	1B	*	L01-7147-05	POWER TRANSFORMER (MAIN)	P	
E	2B, 2C		N09-1515-05	TAPPING SCREW (Ø3X8)		
G	1C		N08-0128-35	BINDING POST (GND)		
H			N09-1280-05	TAPTITE SCREW (Ø3X8)		
35	2B	*	R29-5010-05	POTENTIOMETER (5KEY, 20K) EQ		
S1	1B		S40-1073-05	PUSH SWITCH (POWER)		

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△ S2 △ S3	1C 1C		S31-2113-05 S31-2083-05	SLIDE SWITCH (IMPEDANCE) SLIDE SWITCH (POWER TYPE)	UUE	
39 40	1B 1B		T90-0104-25 T90-0132-05	LOOP ANTENNA T TYPE ANTENNA		
43	1B		W09-0022-05	BATTERY		
TUNER UNIT (X05-3150-10)						
D45	2B		B30-0483-05	LED (SLP-170B)		
C1 ,2			C91-0769-05	CERAMIC 0.01UF M		
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			C91-0769-05	CERAMIC 0.01UF M		
C5			CE04KW1C330M	ELECTR0 33UF 16WV		
C6			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C7			CC45FSL1H101J	CERAMIC 100PF J		
C8			CE04KW1C330M	ELECTR0 33UF 16WV		
C9			CK45FF1H223Z	CERAMIC 0.022UF Z		
C10			CK45FF1H103Z	CERAMIC 0.010UF Z		
C11			CQ09FS1H391JY0	POLYSTY 390PF J		
C12			C91-0769-05	CERAMIC 0.01UF M		
C13			CE04KW1V100M	ELECTR0 10UF 35WV		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C17			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C18			CE04KW1V100M	ELECTR0 10UF 35WV		
C19			CF92FV1H223J	MF 0.022UF J		
C20			CF92FV1H273J	MF 0.027UF J		
C21			CK45FF1H223Z	CERAMIC 0.022UF Z		
C22			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C23			CQ09FS1H471JY0	POLYSTY 470PF J		
C24			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C25			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C26			CF92FV1H473J	MF 0.047UF J		
C27			C91-0753-05	CERAMIC 470PF K		
C28			CE04KW1C101M	ELECTR0 100UF 16WV		
C30			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C31			CE04KW1C330M	ELECTR0 33UF 16WV		
C32			CE04KW1V100M	ELECTR0 10UF 35WV		
C33			C91-0769-05	CERAMIC 0.01UF M		
C34			CE04KW1C330M	ELECTR0 33UF 16WV		
C35			C91-0769-05	CERAMIC 0.01UF M		
C36			CF92FV1H473J	MF 0.047UF J		
C37			C90-1349-05	ALMINIUM ELECTROLYTIC C.		
C38			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C39			CC45FCH1H470J	CERAMIC 47PF J		
C40			CC45FCH1H390J	CERAMIC 39PF J		
C41			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C43			C91-0769-05	CERAMIC 0.01UF M		
C72 ,73			CC45FSL1H151J	CERAMIC 150PF J		
C74 ,75			CF92FV1H133J	MF 0.013UF J	UUE	
C74 ,75			CF92FV1H223J	MF 0.022UF J	KP	
C76 ,77			CF92FV1H682J	MF 6800PF J	UUE	
C78 ,79			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C200-203			C91-0737-05	CERAMIC 47PF J		

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VR2 VR3 VR4			R12-3097-05 R12-1069-05 R12-8015-05	TRIMMING POT. (22K) FM TRIMMING POT. (4.7K) VC0 TRIMMING POT. (1M) SEPARATION		
△ K1 S1 -32 S33 S34 S34 -36	2A, 2B 1B 2C 2C	* * *	S51-1036-05 S40-1064-05 S42-2139-05 S31-2094-05 S31-2094-05	MAGNETIC RELAY PUSH SWITCH (OPERATION KEY) MULTIPLE PUSH SWITCH (SPEAKERS) SLIDE SWITCH (PRESET) SLIDE SWITCH (PRESET)	KP UUE	
D1 D1 D2 D3 D3			1SS133 1SS176 KV1236(Z2) HZ56.8N(B2) RD6.8ES(B2)	DIODE DIODE VARIABLE CAPACITANCE DIODE ZENER DIODE ZENER DIODE		
D4 -6 D4 -6 D8 D8 D8 -11			1SS133 1SS176 1SS133 1SS176 1SS133	DIODE DIODE DIODE DIODE DIODE	KP UUE	
D9 D10 D10 D11 D21 -38			1SS176 1SS133 1SS176 1SS176 1SS133	DIODE DIODE DIODE DIODE DIODE	UUE KP UUE	
D21 -38 D39 D39 D40 -44 D40 -44		* *	1SS176 HZ510N(B) RD10ES(B) 1SS133 1SS176	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
△ D46 -50 D51 D51 FL1 IC1	1B	*	DSM1A1 1SS133 1SS176 FIP9AM24 LA1265	DIODE DIODE DIODE FLUORESCENT INDICATOR TUBE IC(FM/AM TUNER)		
IC2 IC3 IC4 IC5 IC6 -10		*	AN7470 LM7001 7516HG-031-36 UPD7564CS-037 LB1294	IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER) IC(MICROPROCESSOR) IC(MICROPROCESSOR) IC(6CH DARLINGTON DRIVER)		
IC11 Q1 Q2 -5 Q7 Q8			TD6301AP 2SC1923(R,0) 2SC945(A)(Q,P) 2SC2003(L,K) 2SA733(A)(Q,P)	IC(FL/LED/LCD FREQ DISPLAY DR) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 ,10 Q11 ,12 Q13 ,14			2SC1845(F,E) 2SA733(A)(Q,P) 2SK163(K)	TRANSISTOR TRANSISTOR TRANSISTOR		
53 54	2B 2C		W02-0692-05 W02-0699-05	ELECTRIC CIRCUIT MODULE FM FRONT-END ASSY		
AUDIO UNIT (X09-2310-10)						
C1 ,2 C3 ,4 C7 ,8 C9 ,10 C11 ,12			C91-0749-05 CE04KW1V100M CE04KW1A101M CF92FV1H123J CF92FV1H332J	CERAMIC 220PF K ELECTRO 10UF 35WV ELECTRO 100UF 10WV MF 0.012UF J MF 3300PF J		

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D50 ,51			DSM1A1	DIODE		
D52		*	RD33ES(B2)	ZENER DIODE		
D53		*	HZS8.2N(B2)	ZENER DIODE		
D53		*	RD8.2ES(B2)	ZENER DIODE		
D54 -57			DSM1A1	DIODE		
D58		*	HZS13N(B2)	ZENER DIODE		
D58		*	RD13ES(B2)	ZENER DIODE		
D59			1SS131	DIODE		
D59			1SS178	DIODE		
D60			1SS133	DIODE		
D60			1SS176	DIODE		
D61			HZS6.2N(B2)	ZENER DIODE		
D61			RD6.2ES(B2)	ZENER DIODE		
D62 -64			1SS133	DIODE		
D62 -64			1SS176	DIODE		
D69 ,70			1SS133	DIODE		
D69 ,70			1SS176	DIODE		
D71		*	HZS8.2N(B2)	ZENER DIODE		
D71		*	RD8.2ES(B2)	ZENER DIODE		
D72			HZS6.2N(B2)	ZENER DIODE		
D72			RD6.2ES(B2)	ZENER DIODE		
D73 -76			1SS133	DIODE		
D73 -76			1SS176	DIODE		
D79 -86			1SS133	DIODE		
D79 -86			1SS176	DIODE		
D87			HZS6.2N(B2)	ZENER DIODE		
D87			RD6.2ES(B2)	ZENER DIODE		
D88		*	HZS3.3N(B)	ZENER DIODE		
D88		*	RD3.3ES(B)	ZENER DIODE		
D89 ,90			1SS133	DIODE		
D91			1SS133	DIODE		
D91			1SS176	DIODE		
IC1			AN6556F	IC(OP AMP X2)		
IC1		*	M5218P-A	IC(OP AMP X2)		
IC2			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3		*	TC9163N	IC(BILATERAL SWITCH X16)		
IC4			TC9176P	IC(2CH ELECTRONIC VOLUME)		
IC5			AN6556F	IC(OP AMP X2)		
IC5		*	M5218P-A	IC(OP AMP X2)		
IC7 ,8			M5227P	IC(5CH GRAPHIC EQUALIZER)		
IC9 ,10			AN6556F	IC(OP AMP X2)		
IC9 ,10		*	M5218P-A	IC(OP AMP X2)		
IC11,12			UPD4066BC	IC(BILATERAL SWITCH X4)		
Q1 -4			2SC1845(F,E)	TRANSISTOR		
Q5 ,6			2SC2878	TRANSISTOR		
Q7 ,8			2SC945(A)(Q,P)	TRANSISTOR		
Q9			2SA733(A)(Q,P)	TRANSISTOR		
Q9			2SA999(E,F)	TRANSISTOR		
Q10			2SC2320(E,F)	TRANSISTOR		
Q10			2SC945(A)(Q,P)	TRANSISTOR		
Q11 -14			2SA992(F,E)	TRANSISTOR		
Q15 -18			2SC1845(F,E)	TRANSISTOR		
Q19 ,20			2SA992(F,E)	TRANSISTOR		
Q21 ,22			2SC3419(Y)	TRANSISTOR		
Q23 ,24			2SC2590(Q,R)	TRANSISTOR		

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C131,132 C133 C134 C135 C136			CK45FB1H561K CED4KW1HR47M CF92FV1H123J CF92FV1H332J CF92FV1H123J	CERAMIC 560PF K ELECTRO 0.47UF 50WV MF 0.012UF J MF 3300PF J MF 0.012UF J		
C137 C138 C139 C140 C141,142			CF92FV1H332J CF92FV1H123J CF92FV1H332J CED4KW1V100M CF92FV1H333J	MF 3300PF J MF 0.012UF J MF 3300PF J ELECTRO 10UF 35WV MF 0.033UF J		
C143 C151 C152 C153 C154-156			CED4KW1V100M CED4KW1V100M CED4JW1C100M CED4KW1V100M CED4DWOJ471M	ELECTRO 10UF 35WV ELECTRO 10UF 35WV ELECTRO 10UF 16WV ELECTRO 10UF 35WV ELECTRO 470UF 6.3WV		
C157,158			CED4KW1A470M	ELECTRO 47UF 10WV		
45 E1 E2 ~4 E5 E6	1C 1B 1A		E23-0125-05 E13-0229-05 E13-0814-05 E13-0126-05 E11-0152-05	TERMINAL PHONE JACK (2P)PHONE PHONE JACK (8P)TAPE,VIDEO PHONE JACK (1P) ARM UP/DOWN MINIPHONE JACK(3P)MUTE,PLAY CUT		
E7 E8 -10	1C		E11-0164-05 E13-0227-05	MINIPHONE JACK(3P)BUSY DATA PHONE JACK (2P)VIDEO MNTR OUT		
F3 F3	1C 1C		F05-1521-05 F06-1521-05	FUSE (250V 1.5A) FUSE (UL) (250V 1.5A)	UUE KP	
49	1C		J13-0041-05	FUSE CLIP		
J	1B		N09-0333-05	TAPPING SCREW (/3X12)		
CP1 ,2 R131-136 R143-146 R147-150 R151			R90-0187-05 RD14AB2E221J RD14AB2E221J RD14AB2E2R2J RD14AB2E100J	MULTI-COMP 0.22X2 K 5W FL-PROOF RD 220 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 2.2 J 1/4W FL-PROOF RD 10 J 1/4W		
R152 R153,154 R169 R175 R183,184		*	RD14AB2E470J RS14KB3D4R7J RD14AB2E4R7J RD14AB2E270J RS14DB3A471J	FL-PROOF RD 47 J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RD 4.7 J 1/4W FL-PROOF RD 27 J 1/4W FL-PROOF RS 470 J 1W		
R187 R194 R256 R257 VR1 ,2			RD14AB2E101J RD14AB2E101J RD14GB2E390J RD14AB2E390J R12-1066-05	FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 39 J 1/4W FL-PROOF RD 39 J 1/4W TRIMMING POT. (1K) IDLE CURRENT	UUE UUE	
S1	1C	*	S42-2140-05	MULTIPLE PUSH SWITCH(FM,SYNTH		
D1 -38 D1 -38 D39 -42 D39 -42 D43			1SS133 1SS176 1SS131 1SS178 DSM1A1	DIODE DIODE DIODE DIODE DIODE		
D44 ,45 D44 ,45 D46 -49		*	1SS133 1SS176 DSA3A2	DIODE DIODE SURGE ABSORBER		

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Q25 ,26 Q27 ,28 Q29 ,30 Q31 ,32 Q33		*	2SA1110(Q,R) 2SC3854*5(Q,P) 2SA1490*5(Q,P) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q34 ,35 Q34 ,35 Q36 Q37 Q38			2SC2320(E,F) 2SC945(A)(Q,P) 2SC2878 2SB772(Q,P) 2SC2167	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q39 ,40 Q39 ,40 Q41 ,42 Q41 ,42 Q43 ,44			2SC2320(E,F) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2167	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q45 Q45 Q46 Q46 Q47			2SA733(A)(Q,P) 2SA999(E,F) 2SC2003(L,K) 2SD882(Q,P) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KP UUE	
Q47 Q51 -57 Q51 -57 Q58 Q58 ,59			2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P) 2SC2003(L,K) 2SC2167	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KP UUE	
Q60 ,61 Q60 ,61 Q62 Q63 -65 Q66 ,67 Q66 ,67			2SA733(A)(Q,P) 2SA999(E,F) 2SC2003(L,K) 2SA999(E,F) 2SC2320(E,F) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
SUB-CIRCUIT UNIT (X13-5540-11)						
R2 D1 -3 D1 -3 Q1 ,2			RD14GB2E151J 1SS131 1SS178 2SC945(A)(Q,P)	FL-PROOF RD 150 J 1/4W DIODE DIODE TRANSISTOR		
ELECTRIC CIRCUIT MODULE (W02-0692-05)						
D1 IC1			PH302B CX20106A	PHOTO DIODE IC(REMOTE CONTROLLER PREAMP)		
FM FRONT END (W02-0699-05)						
D1 -3 TR1 TR2 ,3 TR4			1SV110 2SK439 2SC3391 2SC3494	VARICAP FET TRANSISTOR TRANSISTOR		

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KR-V55R

SPECIFICATIONS

(IHF'66) AUDIO SECTION Power Output

55 watts per channel minimum RMS, both channel driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03 % total harmonic distortion

58 watts per channel minimum RMS, both channel driven at 8 ohms at 1 kHz with no more than 0.03 % total harmonic distortion

Total Harmonic Distortion

(20 Hz-20,000 Hz,

8 ohms) 0.03 % at 55 watts

(1 kHz, 8 ohms) 0.007 % at 55 watts

Inter modulation Distortion ... 0.03 % at 55 watts

Input Sensitivity/Impedance

PHONO (MM) 2.5 mV/47 kohms

CD/AUX, TAPE, VIDEO .. 150 mV/47 ohms

Frequency Response

PHONO (RIAA standard

Curve) 20 Hz-20,000 Hz... ± 0.5 dB

TAPE, CD/AUX 10 Hz-60,000 Hz... +0 dB,
-3 dB

Signal to Noise Ratio

PHONO (MM) 73 dB

CD/AUX, TAPE 100 dB

VIDEO 90 dB

Graphic Equalizer

Center Frequency 63 Hz, 300 Hz, 1 kHz,
3 kHz, 10 kHz

Control Range ± 12 dB

VIDEO SECTION

Inputs VIDEO 1,2,3 1 Vp-p, 75 ohms unbalanced

Output VIDEO 1,2 1 Vp-p, 75 ohms unbalanced

MONITOR VIDEO

OUT 1 Vp-p, 75 ohms unbalanced

FM TUNER SECTION

Tuning Frequency Range... 87.5 MHz-108 MHz

Antenna Impedance 300 ohms balanced & 75
ohms unbalanced

Usable Sensitivity 10.8 dBf (1.9 μ V)

50 dB Quieting Sensitivity

MONO 14.2 dBf (2.8 μ V)

STEREO 37.1 dBf (39 μ V)

Signal to Noise Ratio at 65 dBf

MONO 78 dB

STEREO 72 dB

Total Harmonic Distortion at 1,000 Hz

MONO 0.09 %

STEREO 0.12 %

Frequency Response 30 Hz-15,000 Hz

+0.5 dB, -2 dB

Stereo Separation 45 dB at 1,000 Hz

Selectivity 55 dB at 400 kHz

Capture Ratio 1.2 dB

Image Rejection Ratio 43 dB

IF Rejection Ratio 86 dB

Spurious Rejection Ratio ... 84 dB

AM Suppression Ratio 65 dB

AM TUNER SECTION

Tuning Range

530 kHz-1,610 kHz

Usable Sensitivity 10 μ V (400 μ V/m)

Signal to Noise Ratio 50 dB

Total Harmonic Distortion . 0.3 %

Selectivity 25 dB

GENERAL

Power Requirement 60 Hz, 120 V...USA &
CANADA Model

Power Consumption 2.2 A...USA & Canada

AC Outlet Switched $\times 3$ (200 W)

Dimensions 420(W) \times 111(H) \times 319.5(D)mm
(16-9/16 \times 4-3/8" \times 12-9/16")

Weight (Net) KR-V55R...6.7 kg (14.8 lb)

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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